

## APPARATUS AND METHOD FOR CONCURRENT CHEMICAL SYNTHESIS

### ABSTRACT OF THE DISCLOSURE

This invention provides an apparatus for preparing chemical libraries. The  
5 apparatus includes (1) a carousel comprising a plurality of reaction mounts having at least  
one reaction well; (2) a rotator that rotates the carousel step-wise; (3) a fluid delivery  
system; (4) a drain system; and (5) a programmable computer that controls the operation  
of the apparatus, including the rotator, the fluid delivery system, the drain system and  
other systems in the apparatus. The preparation of chemical libraries involves rotating the  
10 carousel through a plurality of stations. At each station, a physical step in a reaction  
protocol is carried out on the reaction wells of the mount docked at the station.

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